

Claims

- [c1] What is claimed is:
- 1.A tracking access control method of an optical storage medium drive, the optical storage medium drive having a sled capable of sliding in a radial direction of a optical storage medium, the method comprising:
- exerting a brake force on the sled according to a sliding speed of the sled relative to the optical storage medium when the sled is located at an intermediate position in sliding from an initial position to a target position on the optical storage medium.
- [c2] 2.The method of claim 1, wherein the intermediate position is located between the initial position and the target position.
- [c3] 3.The method of claim 1, wherein the optical storage medium is divided along the radial direction into a plurality of tracks for data storage, so that the initial, target, and intermediate positions correspond to tracks of the optical storage medium.
- [c4] 4.The method of claim 3, wherein the intermediate position is one track before the target position.
- [c5] 5.The method of claim 3, wherein the intermediate position is a quarter of one track before the target position.
- [c6] 6.The method of claim 1, wherein the brake force is constant, and the duration of exerting the brake force on the sled is determined by the sliding speed of the sled relative to the optical storage medium.
- [c7] 7.The method of claim 1, wherein the duration of exerting the brake force on the sled is constant, and the amount of the brake force is determined by the sliding speed of the sled relative to the optical storage medium.
- [c8] 8.A control circuit for controlling a sled of an optical storage medium drive, the sled capable of sliding in a radial direction of the optical storage medium, wherein the control circuit exerts a brake force on the sled according to a sliding speed of the sled relative to the optical storage medium when the sled is

located at an intermediate position in a sliding course from an initial position to a target position on the optical storage medium.

[c9] 9.The control circuit of claim 8 wherein the intermediate position is located between the initial position and the target position.

[c10] 10.The control circuit of claim 8 wherein the optical storage medium is divided along the radial direction into a plurality of tracks which stores data, such that the initial position, target position and the intermediate position correspond to tracks of the optical storage medium.

[c11] 11.The control circuit of claim 10 wherein the track corresponding to the intermediate position is one track before the target position.

[c12] 12.The control circuit of claim 10 wherein the track corresponding to the intermediate position is a quarter of one track before the target position.

[c13] 13.The control circuit of claim 8 where in the brake force is constant and the duration for the control circuit to exert the brake force is determined by the sliding speed of the sled relative to the optical storage medium.

[c14] 14.The control circuit of claim 8 wherein the duration of exerting the brake force is constant, and the amount of the brake force is determined by the sliding speed of the sled relative to the optical storage medium.